FAN POWER CONSUMPTION						MECH-4C
PROJECT NAME:						DATE:
NOTE: Provide one copy of this worksheet for each fan sy (CAV) Fan Systems or Variable Air Volume (VAV) System						
A FAN DESCRIPTION		В	C	D	Е	F
FAN DESCRII HON		DESIGN	EFFICIENCY		NUMBER OF	PEAK WATTS B x E x 746 /
		BRAKE HP	MOTOR	DRIVE	FANS	(C x D)
Totals and Adjustments						
FILTER PRESSURE ADJUSTMENT Equation	1) TOTAL FAN SYSTEM POWER (WATTS, SUM					
144-A in §144(c) of the Energy Standards.	COLUMN F)					
A) If filter pressure drop (SP _a) is greater than 1 inch W. C. or 245 Pascal then enter SP _a on line 4. Enter Total Fan pressure drop across the fan (SP _f) on Line 5.	2) SUPPLY DESIGN AIRFLOW (CFM)					
	3) TOTAL FAN SYSTEM POWER INDEX (Row 1 / Row					W/CFM
						11/01111
	4) SP _a					
B) Calculate Fan Adjustment and enter on line 6.	5) SP _f					
C) Calculate Adjusted Fan Power Index and enter on Row 7	6) Fan Adjustment = $1-(SP_a - 1)/SP_f$					
	7) ADJUSTED FAN POWER INDEX (Line 3 x Line 6) ¹					W/CFM
1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED I w/cfm for VAV systems.	⁷ AN POV	NER INDEX mu	st not excee	d 0.8 w/cfm	for Constant Volum	ne systems or 1.25